

Application No.: 10/028553

Case No.: 56009US002

**AMENDMENTS TO THE CLAIMS**

The following Listing of Claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims**

1. (currently amended): A pressure sensitive adhesive comprising:  
a silicone tackifying resin;  
a polydiorganosiloxane polyurea copolymer that is the reaction product of a polydiorganosiloxane polyamine with a polyisocyanate, wherein the mole ratio of isocyanate to amine is in a range of about 0.97:1 to about 1.03:1 ~~0.9:1 to about 1.1:1~~; and  
a plasticizer;  
wherein the silicone tackifying resin and polydiorganosiloxane polyurea copolymer are generally uniformly distributed; the pressure sensitive adhesive is organic solvent-based; the silicone tackifying resin is present in an amount of at least about 55 wt-%, based on the weight of the silicone tackifying resin and the polydiorganosiloxane polyurea copolymer; and the plasticizer is present in an amount sufficient to provide a generally uniform distribution of the polydiorganosiloxane polyurea copolymer and the silicone tackifying resin.
2. (canceled)
3. (previously presented): The pressure sensitive adhesive of claim 1 wherein the silicone tackifying resin is present in an amount of at least about 58 wt-%, based on the weight of the silicone tackifying resin and the polydiorganosiloxane polyurea copolymer.
4. (original): The pressure sensitive adhesive of claim 1 wherein the plasticizer is a hydrocarbon.
5. (original): The pressure sensitive adhesive of claim 1 wherein the plasticizer is a glycol ether, an ester, an alcohol, an ester alcohol, a ketone, an amine, or an organic substituted silicone oil.

Application No.: 10/028553Case No.: 56009US002

6. (original): The pressure sensitive adhesive of claim 1 wherein the plasticizer is an ester, an oil, an organosiloxane, or combinations thereof.

7. (original): The pressure sensitive adhesive of claim 1 wherein the plasticizer is an antioxidant, a bacteriostatic agent, a UV light stabilizer, a UV light absorber, or combinations thereof.

8. (original): The pressure sensitive adhesive of claim 1 wherein the plasticizer is present in an amount of at least about 0.5 wt-%, based on the total weight of the pressure sensitive adhesive.

9. (canceled)

10. (canceled)

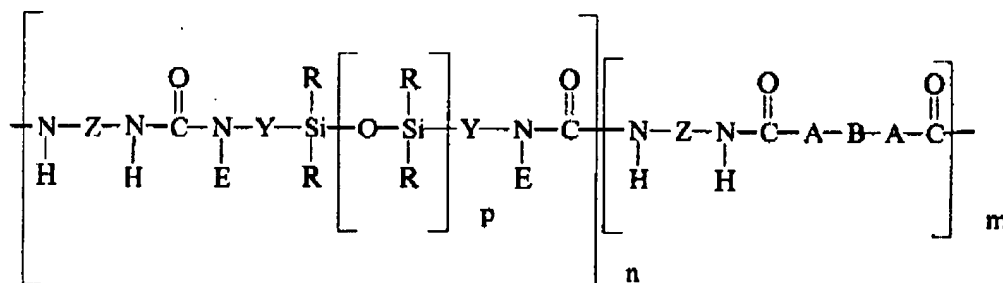
11. (original): The pressure sensitive adhesive of claim 10 wherein the polydiorganosiloxane polyurea copolymer is the reaction product of a polydiorganosiloxane polyamine with a polyisocyanate and a polyfunctional chain extender.

12. (original): The pressure sensitive adhesive of claim 11 wherein the polyamine is a polydiorganosiloxane diamine.

13. (original): The pressure sensitive adhesive of claim 1 wherein the polydiorganosiloxane polyurea copolymer comprises the following repeating unit:

Application No.: 10/028553

Case No.: 56009US002



where:

each R is independently an alkyl moiety, a vinyl moiety or higher alkenyl moiety, a cycloalkyl moiety, an aryl moiety, or a fluorine-containing group;

each Z is independently a polyvalent moiety that is an arylene moiety, an aralkylene moiety, an alkylene moiety, or a cycloalkylene moiety;

each Y is independently a polyvalent moiety that independently is an alkylene moiety, an aralkylene moiety or an arylene moiety;

each E is independently hydrogen, an alkyl moiety of 1 to 10 carbon atoms, phenyl, or a moiety that completes a ring structure including Y to form a heterocycle;

each A is independently oxygen or  $-\text{N}(\text{G})-$ , wherein each G is independently hydrogen, an alkyl moiety of 1 to 10 carbon atoms, phenyl, or a moiety that completes a ring structure including B to form a heterocycle;

B is an alkylene, aralkylene, cycloalkylene, phenylene, polyalkylene, polyalkylene oxide, copolymers, or mixtures thereof, or a moiety completing a ring structure including A to form a heterocycle;

m is a number that is 0 to about 1000;

n is a number that is equal to or greater than 1; and

p is a number that is about 5 or larger.

14. (original): The pressure sensitive adhesive of claim 13 wherein at least 50% of the R moieties are methyl moieties with the balance being monovalent alkyl or substituted alkyl moieties having 1 to 12 carbon atoms, alkenylene moieties, phenyl moieties, or substituted phenyl moieties.

Application No.: 10/028553

Case No.: 56009US002

15. (original): The pressure sensitive adhesive of claim 13 wherein m is a number that is 0 to about 25.

16. (original): The pressure sensitive adhesive of claim 13 wherein n is a number that is greater than 8.

17. (original): The pressure sensitive adhesive of claim 13 wherein p is a number that is about 70 to about 1500.

18. (currently amended): A pressure sensitive adhesive comprising:  
a silicone tackifying resin;  
a polydiorganosiloxane polyurea copolymer that is the reaction product of a polydiorganosiloxane polyamine with a polyisocyanate, wherein the mole ratio of isocyanate to amine is in a range of about 0.97:1 to about 1.03:1 ~~0.9:1 to about 1.1:1~~; and  
a plasticizer;  
wherein the silicone tackifying resin and polydiorganosiloxane polyurea copolymer are generally uniformly distributed; and  
wherein the silicone tackifying resin is present in an amount of at least about 55 wt-%, based on the weight of the silicone tackifying resin and the polydiorganosiloxane polyurea copolymer, and the processing aid is present in an amount sufficient to provide a generally uniform distribution of the polydiorganosiloxane polyurea copolymer and the silicone tackifying resin.

19. (currently amended): A pressure sensitive adhesive solution comprising:  
a silicone tackifying resin;  
a polydiorganosiloxane polyurea copolymer that is the reaction product of a polydiorganosiloxane polyamine with a polyisocyanate, wherein the mole ratio of isocyanate to amine is in a range of about 0.97:1 to about 1.03:1 ~~0.9:1 to about 1.1:1~~;  
a processing aid;  
an organic solvent; and

Application No.: 10/028553

Case No.: 56009US002

wherein the silicone tackifying resin is present in an amount of at least about 55 wt-%, based on the weight of the silicone tackifying resin and the polydiorganosiloxane polyurea copolymer, and the processing aid is present in an amount sufficient to provide a generally uniform distribution of the polydiorganosiloxane polyurea copolymer and the silicone tackifying resin..

20. (original): The pressure sensitive adhesive solution of claim 19 wherein the processing aid is transient.

21. (original): The pressure sensitive adhesive solution of claim 19 wherein the processing aid is permanent.

22. (canceled)

23. (previously presented): The pressure sensitive adhesive solution of claim 19 wherein the silicone tackifying resin is present in an amount of at least about 58 wt-%, based on the weight of the silicone tackifying resin and the polydiorganosiloxane polyurea copolymer.

24. (original): The pressure sensitive adhesive solution of claim 19 wherein the processing aid is a hydrocarbon.

25. (original): The pressure sensitive adhesive solution of claim 19 wherein the processing aid is a glycol ether, an ester, an alcohol, an ester alcohol, a ketone, an amine, or an organic substituted silicone oil.

26. (original): The pressure sensitive adhesive solution of claim 19 wherein the processing aid is an ester, an oil, an organosiloxane, or combinations thereof.

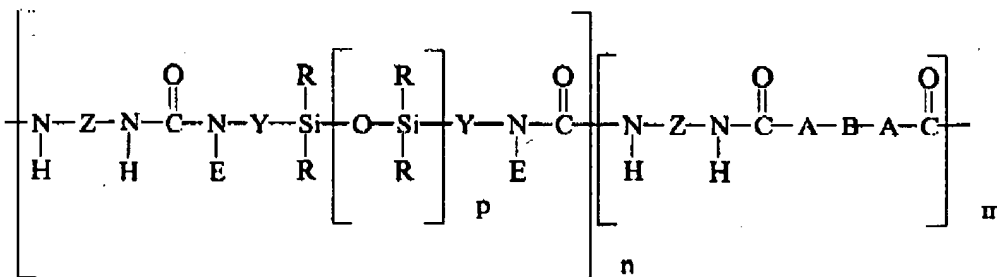
27. (original): The pressure sensitive adhesive solution of claim 19 wherein the processing aid is an antioxidant, a bacteriostatic agent, a UV light stabilizer, a UV light absorber, or combinations thereof.

Application No.: 10/028553

Case No.: 56009US002

28. (original): The pressure sensitive adhesive solution of claim 19 wherein the processing aid is present in an amount of at least about 0.5 wt-%, based on the total weight of the pressure sensitive adhesive.

29. (original): The pressure sensitive adhesive solution of claim 19 wherein the polydiorganosiloxane polyurea copolymer comprises the following repeating unit:



where:

each R is independently an alkyl moiety, a vinyl moiety or higher alkenyl moiety, a cycloalkyl moiety, an aryl moiety, or a fluorine-containing group;

each Z is independently a polyvalent moiety that is an arylene moiety, an aralkylene moiety, an alkylene moiety, or a cycloalkylene moiety;

each Y is independently a polyvalent moiety that independently is an alkylene moiety, an aralkylene moiety or an arylene moiety;

each E is independently hydrogen, an alkyl moiety of 1 to 10 carbon atoms, phenyl, or a moiety that completes a ring structure including Y to form a heterocycle;

each A is independently oxygen or  $-\text{N}(\text{G})-$ , wherein each G is independently hydrogen, an alkyl moiety of 1 to 10 carbon atoms, phenyl, or a moiety that completes a ring structure including B to form a heterocycle;

B is an alkylene, aralkylene, cycloalkylene, phenylene, polyalkylenc, polyalkylene oxide, copolymers, or mixtures thereof, or a moiety completing a ring structure including A to form a heterocycle;

Application No.: 10/028553

Case No.: 56009US002

m is a number that is 0 to about 1000;

n is a number that is equal to or greater than 1; and

p is a number that is about 5 or larger.

30. (original): An adhesive article comprising a backing and the pressure sensitive adhesive of claim 1 disposed on at least one major surface thereof.

31. (original): The adhesive article of claim 30 which is a transfer tape.

32. (original): An adhesive article comprising a backing and the pressure sensitive adhesive of claim 18 disposed on at least one major surface thereof.

33. (original): The adhesive article of claim 32 which is a transfer tape.

34. (original): An adhesive article comprising a backing and a pressure sensitive adhesive deposited from the solution of claim 19 disposed on at least one major surface thereof.

35. (original): The adhesive article of claim 34 which is a transfer tape.

36. (currently amended): A method of making a pressure sensitive adhesive comprising combining a silicone tackifying resin, a polydiorganosiloxane polyurea copolymer that is the reaction product of a polydiorganosiloxane polyamine with a polyisocyanate and has a mole ratio of isocyanate to amine in the range of about 0.97:1 to about 1.03:1 ~~having a mole ratio of isocyanate to amine in a range of about 0.9:1 to about 1.1:1~~, and a processing aid in amounts effective to form a pressure sensitive adhesive wherein the silicone tackifying resin and polydiorganosiloxane polyurea copolymer are generally uniformly distributed, wherein the silicone tackifying resin, polydiorganosiloxane polyurea copolymer, and processing aid are combined in an organic solvent; and wherein the silicone tackifying resin is present in an amount of at least about 55 wt-%, based on the weight of the silicone tackifying resin and the polydiorganosiloxane polyurea copolymer, and

Application No.: 10/028553

Case No.: 56009US002

the processing aid is present in an amount sufficient to provide a generally uniform distribution of the polydiorganosiloxane polyurea copolymer and the silicone tackifying resin.

37. (canceled)

38. (previously presented): The method of claim 36 wherein the processing aid is transient.

39. (canceled)

40. (original): The method of claim 36 wherein the processing aid is permanent.

41. (original): The method of claim 36 wherein the processing aid is an antioxidant, a bacteriostatic agent, a UV light stabilizer, a UV light absorber, or combinations thereof.

42. (previously presented): The pressure sensitive adhesive of claim 1 wherein the plasticizer is selected to provide the pressure sensitive adhesive with an improvement in tack of a least 10% relative to an identical composition but not containing the plasticizer.

43. (previously presented): The pressure sensitive adhesive of claim 18 wherein the plasticizer is selected to provide the pressure sensitive adhesive with an improvement in tack of a least 10% relative to an identical composition but not containing the plasticizer.

44. (previously presented): The pressure sensitive adhesive of claim 19 wherein the processing aid is selected to provide the pressure sensitive adhesive with an improvement in tack of a least 10% relative to an identical composition but not containing the processing aid.

45. (previously presented): The pressure sensitive adhesive of claim 36 wherein the processing aid is selected to provide the pressure sensitive adhesive with an improvement in tack of a least 10% relative to an identical composition but not containing the processing aid.